

**AMENDMENTS TO THE CLAIMS**

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Currently amended)

An optical antenna comprising:

a plurality of optical transmitting and receiving devices that radiate an outgoing optical signal to a space, or receive an incoming optical signal from the space;

arrangement mechanics on which is mounted said plurality of optical transmitting and receiving devices at different positions;

an optical system that transmits, when the optical signal is radiated from said optical transmitting and receiving devices, the optical signal to the space by refracting the optical signal to form spherical waves, and focuses, when the optical signal arrives from the space, the optical signal onto said optical transmitting and receiving devices; and

~~The optical antenna according to claim 2, further comprising: selecting means for selecting a selector that selects a desired optical fiber from a plurality of optical fibers mounted on said arrangement meansmechanism, and for connectingthat connects the optical fiber selected to said optical transmitting and receiving meansdevices.~~

7. (Currently amended) The optical antenna according to claim 6, wherein said ~~selecting means~~selector selects an optical fiber corresponding to a position of an object to be measured.

8. (Currently amended) The optical antenna according to claim 7, wherein said ~~selecting means~~selector makes a position or angle of said optical system variable in response to changes in position of the object to be measured.

9. (Currently amended) The optical antenna according to claim 7, wherein said ~~selecting means~~selector rotates, when a wedge prism is installed on an object to be measured side of said optical system, the wedge prism in response to changes in position of the object to be measured.

10. (Currently amended) The optical antenna according to claim 7, wherein said ~~selecting means~~selector carries out gimbal driving of said optical system and arrangement ~~means~~mechanism in response to changes in position of the object to be measured.

11. (Cancelled)